



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090262-B

Mode: Highway

Status: Submitted

NC-42

From/Cross Street: East of SR 1902 (Glen Laurel Road)

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1003 (Buffaloe Road)

Project Category: Regional Impact

Length: 4.35

TIP#: R-3825B

Fully Funded in Draft STIP? No

Cost to NCDOT: \$20,300,000

Description:

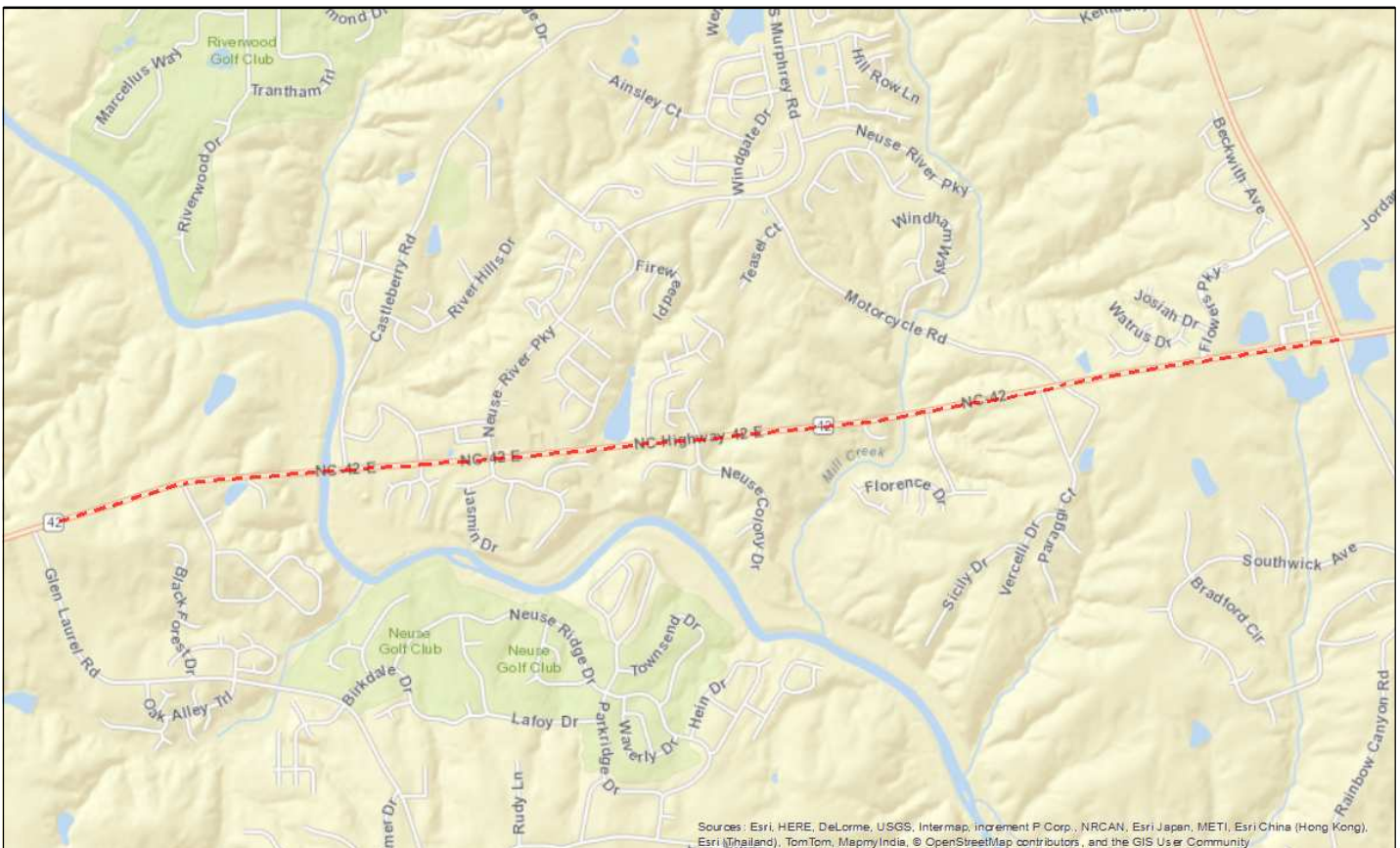
Widen to Multi-Lanes

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 29.72

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
[Paved] Shoulder Width (10%) 50.00	Percent: 15% Points: 0	Percent: 15% Points: 0
[Travel Time] Benefit/Cost (20%) 9.35		
Congestion (V/C) (15%) 57.94		
Safety (15%) 61.06		
Lane Width (10%) 50.00		
Totals: Weight: 70% Weighted Score: 29.72		

Division Needs Total Score: 72.83

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%) 57.94	Percent: 25% Points: 100	Percent: 25% Points: 100
Safety (10%) 61.06		
Lane Width (10%) 50.00		
[Paved] Shoulder Width (10%) 50.00		
[Travel Time] Benefit/Cost (10%) 9.35		
Totals: Weight: 50% Weighted Score: 22.83		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	55
Length (miles):	4.35
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Major Collector
Terrain Type:	Rolling
Lane Width:	10
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	13802.49
Capacity:	15800
Volume/Capacity Ratio:	0.87
% Autos:	93%
% Trucks:	7%
Truck Volume:	989.66
Crash Density:	76.9
Crash Severity:	67.48
Critical Crash Rate:	38.81
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	28
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	90
Actual Congested Speed:	45
Travel Time Index:	1.22

Project Benefits

Project Cross-Section:	4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks
Speed Limit:	55
Length (miles):	4.35
Facility Type:	Multi-Lane Highway
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	8378863.34
Travel Time Savings for 30 Years (Autos):	7778084.67
Travel Time Savings for 30 Years (Trucks):	600778.67
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 4

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 4	100%	0	100
	0%	0	0
	0%	0	0
TOTAL Division Points		0	100

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	0	100
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		0	100

Project Cost and Source

Construction Cost:	\$17,200,000	TIP Unit
Right-of-Way Cost:	\$3,100,000	TIP Unit
Utilities Cost:	\$0	TIP Unit
Total Project Cost:	\$20,300,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$20,300,000	